

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Holtzman, Douglas A. et al.  
Application No.: TBA Group No.: TBA  
Filed: Herewith Examiner: TBA  
For: NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST  
PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**ASSOCIATE POWER OF ATTORNEY**

Dear Sir:

The undersigned attorney has the power of attorney in the subject application. She hereby grants an associate power to:

Mario Cloutier  
Millennium Pharmaceuticals, Inc.  
40 Landsdowne Street  
Cambridge, MA 02139

---

**CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10\***

I hereby certify that, on the date shown below, this correspondence is being:

**MAILING**

- ☒ deposited with the United States Postal Service in an envelope addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.  
**37 C.F.R. SECTION 1.8(a)** **37 C.F.R. SECTION 1.10\***

- ☐ with sufficient postage as first class mail. ☒ as "Express Mail Post Office to Addressee"  
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**TRANSMISSION**

- ☐ transmitted by facsimile to the Patent and Trademark Office.

  
Signature

Sean Hunziker

(type or print name of person certifying)

Date: March 22, 2004

**\*WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

As demonstrated by Appendix A (submitted herewith), Mario Cloutier has passed the Patent Bar Examination and has been granted limited recognition under 37 C.F.R. §10.9(b). Please continue to forward all written and telephonic communications to Jean M. Silveri at the address and telephone number listed below.

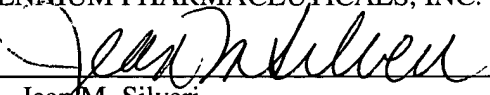
Entry of the remarks made herein is respectfully requested.

March 22, 2004

Respectfully submitted,

MILLENNIUM PHARMACEUTICALS, INC.

By

  
Jean M. Silveri

Registration No. 39,030

40 Landsdowne Street

Cambridge, MA 02139

Telephone - 617-679-7336

Facsimile - 617-551-8820

**BEFORE THE OFFICE OF ENROLLMENT AND DISCIPLINE  
UNITED STATE PATENT AND TRADEMARK OFFICE**

**LIMITED RECOGNITION UNDER 37 CFR § 10.9(b)**

Mario Cloutier is hereby given limited recognition under 37 CFR, 10.9(b) as an employee of Millenium Pharmaceuticals to prepare and prosecute patent applications wherein Millenium Pharmaceuticals is the assignee of record of the entire interest in the invention claimed in the application. This limited recognition shall expire on the date appearing below, or when whichever of the following events first occurs prior to the date appearing below: (i) Mario Cloutier ceases to lawfully reside in the United States, (ii) Mario Cloutier's employment with Millenium Pharmaceuticals ceases or is terminated, or (iii) Mario Cloutier ceases to remain or reside in the United States on an H-1 visa.

This document constitutes proof of such recognition. The original of this document is on file in the Office of Enrollment and Discipline of the U.S. Patent and Trademark Office.

**Expires: March 1, 2005**

A handwritten signature in black ink, appearing to read "Harry I. Moatz", is written over a horizontal line.

**Harry I. Moatz  
Director of Enrollment and Discipline**

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**(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,  
CONTINUATION, OR C-I-P)**

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As a below named inventor, I hereby declare that:

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This declaration is for a continuation-in-part (C-I-P) application.

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My residence, post office address and citizenship are as stated below, next to my name. I believe that I am an original, first and joint inventor of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

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U.S. PROVISIONAL APPLICATIONS			Status	
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
1. 60/117,580	27 Jan 1999			X

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PCT/US00/02125	27 Jan 2000		X	

**POWER OF ATTORNEY**

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

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**SIGNATURE(S)**

Douglas A. Holtzman

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Jamaica Plain, MA

**Post Office Address** 821 Centre Street, No. 6, Jamaica Plain, MA 02130

**Country of Citizenship** United States of America

■■■■■■■

Sean A. McCarthy

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** San Diego, CA

**Post Office Address** 3625 Dupont Street, San Diego, CA 92106

**Country of Citizenship** United Kingdom



■■■■■■■

Kyle J. MacBeth

**Inventor's signature** \_\_\_\_\_

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**Residence** Boston, MA

**Post Office Address** 688 Tremont Sstreet, Apt. 4, Boston, MA 02118

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Samantha J. Busfield

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Maddington, West Australia

**Post Office Address** 14 Stanford Street, Maddington, West Australia 6109, Australia

**Country of Citizenship** Australia

■■■■■■■

Yang Pan

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Bellevue, WA

**Post Office Address** 5308 135<sup>th</sup> Place SE, Bellevue, WA 98006

**Country of Citizenship** Peoples' Republic of China

■■■■■■■

David White

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Braintree, MA

**Post Office Address** 35 Hollingsworth Avenue, Braintree, MA 02148

**Country of Citizenship** United States of America

■■■■■■■

Mehran M. Khodadoust

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Brookline, MA 02445

**Post Office Address** 106 Sewall Avenue, Apt. 6, Brookline, MA 02445

**Country of Citizenship** United States of America

■■■■■■

Wei Gu

Inventor's signature X

Date X 6/15/2001

Residence Brookline, MA

Post Office Address 48 Kilsyth Road, #2, Brookline, MA 02445

Country of Citizenship Peoples' Republic of China

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**COMBINED DECLARATION AND POWER OF ATTORNEY**

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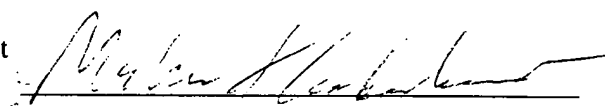
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**Country of Citizenship** United Kingdom

□□□□□

Kyle J. MacBeth

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Samantha J. Busfield

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□□□□□

Yang Pan

Inventor's signature *Yang Pan* \_\_\_\_\_

Date *6/19/01* \_\_\_\_\_

Residence Bellevue, WA

Post Office Address 5308 135<sup>th</sup> Place SE, Bellevue, WA 98006

Country of Citizenship Peoples' Republic of China

□□□□□

David White

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

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Post Office Address 35 Hollingsworth Avenue, Braintree, MA 02148

Country of Citizenship United States of America

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Mehran M. Khodadoust

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Wei Gu

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Brookline, MA

**Post Office Address** 48 Kilsyth Road, #2, Brookline, MA 02445

**Country of Citizenship** Peoples' Republic of China

---

**COMBINED DECLARATION AND POWER OF ATTORNEY**

**(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,  
CONTINUATION, OR C-I-P)**

---

As a below named inventor, I hereby declare that:

**TYPE OF DECLARATION**

This declaration is for a continuation-in-part (C-I-P) application.

**INVENTORSHIP IDENTIFICATION**

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am an original, first and joint inventor of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION**

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND  
NUCLEIC ACID MOLECULES AND USES THEREFOR**

**SPECIFICATION IDENTIFICATION**

The specification was filed on February 13, 2001, as Serial No. 09/782,980.

**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

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### CLAIM FOR BENEFIT OF U.S. PROVISIONAL APPLICATION(S)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

PRIOR U.S. PROVISIONAL APPLICATIONS FOR BENEFIT UNDER 35 U.S.C. SECTION 119(e):				
U.S. PROVISIONAL APPLICATIONS			Status	
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
1. 60/117,580	27 Jan 1999			X

### CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. SECTION 120

I hereby claim the benefit, under Title 35, United States Code, Section 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information that occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

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U.S. APPLICATIONS			Status	
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
1. 09/448,076	23 Nov 1999		X	
2. 09/276,400	25 Mar 1999		X	
3. 09/014,195	27 Jan 1998		X	
4. 09/014,348	27 Jan 1998		X	
5. 09/086,892	29 May 1998		X	
6. 09/296,208	21 April 1999		X	
7. 09/063,950	21 April 1998		X	



<b>PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. SECTION 120: (cont'd)</b>				
<b>U.S. APPLICATIONS</b>			<b>Status</b>	
8. 09/561,381	28 April 2000		X	
9. 09/561,810	28 April 2000		X	
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PCT APPLICATION DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. APPLICATION NOS. ASSIGNED (IF ANY)		
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Jean M. Silveri	39,030
George C. Jen	39,239
Theodore Allen	41,578
Jill E. Uhl	43,213
Kerri Pollard Schray	47,066

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**SEND CORRESPONDENCE TO**

Jean M. Silveri  
Millennium Pharmaceuticals, Inc.  
75 Sidney Street  
Cambridge, MA 02139

**DIRECT TELEPHONE CALLS TO:**

Jean M. Silveri  
617-679-7336

**DIRECT FACSIMILE CORRESPONDENCE TO:**

Jean M. Silveri  
617-374-0074 or 617-551-8820

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**DECLARATION**

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**SIGNATURE(S)**

Douglas A. Holtzman

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Jamaica Plain, MA

**Post Office Address** 821 Centre Street, No. 6, Jamaica Plain, MA 02130

**Country of Citizenship** United States of America

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Sean A. McCarthy

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**Date** \_\_\_\_\_

**Residence** San Diego, CA

**Post Office Address** 3625 Dupont Street, San Diego, CA 92106

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Kyle J. MacBeth

Inventor's signature \_\_\_\_\_

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Post Office Address 688 Tremont Sstreet, Apt. 4, Boston, MA 02118

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Samantha J. Busfield

Inventor's signature Samantha J. Busfield

Date 19/10/2007

Residence Maddington, West Australia

Post Office Address 14 Stanford Street, Maddington, West Australia 6109, Australia

Country of Citizenship Australia

■■■■■■

Yang Pan

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Residence Bellevue, WA

Post Office Address 5308 135<sup>th</sup> Place SE, Bellevue, WA 98006

Country of Citizenship Peoples' Republic of China

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David White

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Mehran M. Khodadoust

Inventor's signature \_\_\_\_\_

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**SPECIFICATION IDENTIFICATION**

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U.S. PROVISIONAL APPLICATIONS			Status	
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
1. 60/117,580	27 Jan 1999			X

**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)  
UNDER 35 U.S.C. SECTION 120**

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5. 09/086,892	29 May 1998		X	
6. 09/296,208	21 April 1999		X	
7. 09/063,950	21 April 1998		X	

**PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS  
DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. SECTION 120: (cont'd)**

U.S. APPLICATIONS			Status	
8. 09/561,381	28 April 2000		X	
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PCT APPLICATION DESIGNATING THE U.S.				
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**DIRECT TELEPHONE CALLS TO:**

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**SIGNATURE(S)**

Douglas A. Holtzman

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Jamaica Plain, MA

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**Country of Citizenship** United States of America

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Sean A. McCarthy

**Inventor's signature** Sean A. McCarthy

**Date** 2-17-05

**Residence** San Diego, CA

**Post Office Address** 3625 Dupont Street, San Diego, CA 92106

**Country of Citizenship** United Kingdom



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Kyle J. MacBeth

**Inventor's signature** \_\_\_\_\_

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**Residence** Boston, MA

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Samantha J. Busfield

**Inventor's signature** \_\_\_\_\_

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**Country of Citizenship** Australia

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Yang Pan

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Bellevue, WA

**Post Office Address** 5308 135<sup>th</sup> Place SE, Bellevue, WA 98006

**Country of Citizenship** Peoples' Republic of China

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David White

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Braintree, MA

**Post Office Address** 35 Hollingsworth Avenue, Braintree, MA 02148

**Country of Citizenship** United States of America

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Mehran M. Khodadoust

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Brookline, MA 02445

**Post Office Address** 106 Sewall Avenue, Apt. 6, Brookline, MA 02445

**Country of Citizenship** United States of America



Wei Gu

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**Date** \_\_\_\_\_

**Residence** Brookline, MA

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**Country of Citizenship** Peoples' Republic of China

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**COMBINED DECLARATION AND POWER OF ATTORNEY**

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# **CLAIM FOR BENEFIT OF U.S. PROVISIONAL APPLICATION(S)**

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U.S. PROVISIONAL APPLICATIONS			Status	
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
1. 60/117,580	27 Jan 1999			X

# **CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. SECTION 120**

I hereby claim the benefit, under Title 35, United States Code, Section 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information that occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

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U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
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3. 09/014,195	27 Jan 1998		X	
4. 09/014,348	27 Jan 1998		X	
5. 09/086,892	29 May 1998		X	
6. 09/296,208	21 April 1999		X	
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**PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS  
DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. SECTION 120: (cont'd)**

U.S. APPLICATIONS			Status	
8. 09/561,381	28 April 2000		X	
9. 09/561,810	28 April 2000		X	
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PCT APPLICATION DESIGNATING THE U.S.				
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Douglas A. Holtzman

Inventor's signature

Date *x* 6/19/01

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Inventor's signature

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Sean A. McCarthy

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** San Diego, CA

**Post Office Address** 3625 Dupont Street, San Diego, CA 92106

**Country of Citizenship** United Kingdom

■■■■■■■

Kyle J. MacBeth

Inventor's signature

Date

Residence Boston, MA

Post Office Address 688 Tremont Sstreet, Apt. 4, Boston, MA 02118

Country of Citizenship United States of America

■■■■■■■

Samantha J. Busfield

Inventor's signature

Date

Residence Maddington, West Australia

Post Office Address 14 Stanford Street, Maddington, West Australia 6109, Australia

Country of Citizenship Australia

■■■■■■■

Yang Pan

Inventor's signature

Date

Residence Bellevue, WA

Post Office Address 5308 135<sup>th</sup> Place SE, Bellevue, WA 98006

Country of Citizenship Peoples' Republic of China

■■■■■■■

David White

Inventor's signature

Date

Residence Braintree, MA

Post Office Address 35 Hollingsworth Avenue, Braintree, MA 02148

Country of Citizenship United States of America

■■■■■■■

Mehran M. Khodadoust

Inventor's signature

Date

Residence Brookline, MA 02445

Post Office Address 106 Sewall Avenue, Apt. 6, Brookline, MA 02445

Country of Citizenship United States of America



Wei Gu

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Brookline, MA

**Post Office Address** 48 Kilsyth Road, #2, Brookline, MA 02445

**Country of Citizenship** Peoples' Republic of China

---

**COMBINED DECLARATION AND POWER OF ATTORNEY**

**(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,  
CONTINUATION, OR C-I-P)**

---

As a below named inventor, I hereby declare that:

**TYPE OF DECLARATION**

This declaration is for a continuation-in-part (C-I-P) application.

**INVENTORSHIP IDENTIFICATION**

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am an original, first and joint inventor of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION**

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND  
NUCLEIC ACID MOLECULES AND USES THEREFOR**

**SPECIFICATION IDENTIFICATION**

The specification was filed on February 13, 2001, as Serial No. 09/782,980.

**ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, Section 1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent.

### CLAIM FOR BENEFIT OF U.S. PROVISIONAL APPLICATION(S)

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

PRIOR U.S. PROVISIONAL APPLICATIONS FOR BENEFIT UNDER 35 U.S.C. SECTION 119(e):				
U.S. PROVISIONAL APPLICATIONS			Status	
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
1. 60/117,580	27 Jan 1999			X

### CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. SECTION 120

I hereby claim the benefit, under Title 35, United States Code, Section 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information that occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. SECTION 120:				
U.S. APPLICATIONS			Status	
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
1. 09/448,076	23 Nov 1999		X	
2. 09/276,400	25 Mar 1999		X	
3. 09/014,195	27 Jan 1998		X	
4. 09/014,348	27 Jan 1998		X	
5. 09/086,892	29 May 1998		X	
6. 09/296,208	21 April 1999		X	
7. 09/063,950	21 April 1998		X	



**PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS  
DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. SECTION 120: (cont'd)**

U.S. APPLICATIONS			Status	
8. 09/561,381	28 April 2000		X	
9. 09/561,810	28 April 2000		X	
10. 09/087,121	29 May 1998		X	
11. 09/672,721	28 Sept 2000		X	
12. 09/049,799	27 Mar 1998		X	
PCT APPLICATION DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. APPLICATION NOS. ASSIGNED (IF ANY)		
PCT/US00/02125	27 Jan 2000		X	

**POWER OF ATTORNEY**

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

APPOINTED PRACTITIONER(S)	REGISTRATION NUMBER(S)
Scott A. Brown	32,724
Susan M. Perkins	36,405
Jean M. Silveri	39,030
George C. Jen	39,239
Theodore Allen	41,578
Jill E. Uhl	43,213
Kerri Pollard Schray	47,066

---

**SEND CORRESPONDENCE TO**

Jean M. Silveri  
Millennium Pharmaceuticals, Inc.  
75 Sidney Street  
Cambridge, MA 02139

**DIRECT TELEPHONE CALLS TO:**

Jean M. Silveri  
617-679-7336

**DIRECT FACSIMILE CORRESPONDENCE TO:**

Jean M. Silveri  
617-374-0074 or 617-551-8820

---

**DECLARATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**SIGNATURE(S)**

Douglas A. Holtzman

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Jamaica Plain, MA

**Post Office Address** 821 Centre Street, No. 6, Jamaica Plain, MA 02130

**Country of Citizenship** United States of America

■■■■■■■

Sean A. McCarthy

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** San Diego, CA

**Post Office Address** 3625 Dupont Street, San Diego, CA 92106

**Country of Citizenship** United Kingdom

■■■■■■

Kyle J. MacBeth

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Boston, MA

**Post Office Address** 688 Tremont Sstreet, Apt. 4, Boston, MA 02118

**Country of Citizenship** United States of America

■■■■■■

Samantha J. Busfield

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Maddington, West Australia

**Post Office Address** 14 Stanford Street, Maddington, West Australia 6109, Australia

**Country of Citizenship** Australia

■■■■■■

Yang Pan

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

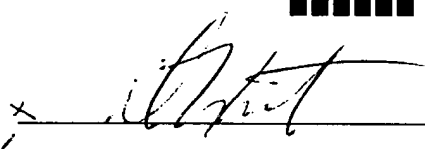
**Residence** Bellevue, WA

**Post Office Address** 5308 135<sup>th</sup> Place SE, Bellevue, WA 98006

**Country of Citizenship** Peoples' Republic of China

■■■■■■

David White

**Inventor's signature**  \_\_\_\_\_

**Date**  \_\_\_\_\_

**Residence** Braintree, MA

**Post Office Address** 35 Hollingsworth Avenue, Braintree, MA 02148

**Country of Citizenship** United States of America

■■■■■■

Mehran M. Khodadoust

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Brookline, MA 02445

**Post Office Address** 106 Sewall Avenue, Apt. 6, Brookline, MA 02445

**Country of Citizenship** United States of America



Wei Gu

**Inventor's signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Residence** Brookline, MA

**Post Office Address** 48 Kilsyth Road, #2, Brookline, MA 02445

**Country of Citizenship** Peoples' Republic of China

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Douglas A. Holtzman et al

Serial No.: 09/782,980

Filed: February 13, 2001

For: Novel ITALY, LOR-2, STRIFE, TRASH,  
BDSF, LRSG, and STMST Protein and Nucleic Acid  
Molecules and Uses Therefor

Attorney Docket No.: MPI2000-544OMNI

Group Art Unit:

Examiner:

COPY

Assistant Commissioner for Patents  
Washington, D.C. 20231

"Express Mail" mailing label number EL 848 028 747 US

Date of Deposit July 13, 2001

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, DC 20231

  
Signature

Larry Taylor

Please Print Name of Person Signing

**REVOCATION OF PRIOR POWERS OF ATTORNEY  
AND APPOINTMENT OF NEW POWER OF ATTORNEY**

Dear Sir:

MILLENNIUM PHARMACEUTICALS, INC., the Assignee of the entire right, title and interest in the above-identified application by virtue of the Assignment document filed with the United States Patent and Trademark Office herewith hereby revokes all Powers of Attorney with respect to that application heretofore granted and appoints the below listed attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office connected therewith.

Scott A. Brown, Reg. No. 32,724; Susan M. Perkins, Reg. No. 36,405; Jean M. Silveri, Reg. No. 39,030; George Jen, Reg. No. 39,239; Theodore Allen, Reg. No. 41,578; Jill Uhl, Reg. No. 43,213; and Kerri Pollard Schray, Reg. No. 47,066


all of Millennium Pharmaceuticals, Inc., 75 Sidney Street, Cambridge, Massachusetts  
02139, United States of America.

Please direct all future correspondence to:

Intellectual Property Group  
MILLENNIUM PHARMACEUTICALS, INC.  
75 Sidney Street  
Cambridge, MA 02139

and direct all telephone calls to Jean M. Silveri at (617) 679-7336.

MILLENNIUM PHARMACEUTICALS, INC.

By: 

Typed Name: Scott A. Brown

Title: Associate General Counsel and Chief Patent Counsel

Dated: 6/27/01



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SEPTEMBER 22, 2001

PTAS

MILLENNIUM PHARMACEUTICALS, INC.  
JEAN M. SILVERI  
INTELLECTUAL PROPERTY GROUP  
75 SIDNEY STREET  
CAMBRIDGE, MA 02139



\*101784261A\*

COPY

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/16/2001

REEL/FRAME: 011982/0543  
NUMBER OF PAGES: 81

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

HOLTZMAN, DOUGLAS A.

DOC DATE: 06/19/2001

ASSIGNOR:

MCCARTHY, SEAN A.

DOC DATE: 07/02/2001

ASSIGNOR:

MACBETH, KYLE J.

DOC DATE: 06/18/2001

ASSIGNOR:

BUSFIELD, SAMANTHA J.

DOC DATE: 06/19/2001

ASSIGNOR:

PAN, YANG

DOC DATE: 06/19/2001

ASSIGNOR:

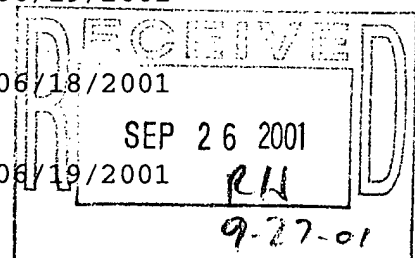
WHITE, DAVID

DOC DATE: 06/18/2001

ASSIGNOR:

KHODADOUST, MEHRAN M.

DOC DATE: 06/19/2001



011982/0543 PAGE 2

ASSIGNOR:  
GU, WEI

DOC DATE: 06/15/2001

ASSIGNEE:  
MILLENNIUM PHARMACEUTICALS, INC.  
75 SIDNEY STREET  
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09782980  
PATENT NUMBER:

FILING DATE: 02/13/2001  
ISSUE DATE:

SHARON LATIMER, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

RECORD

F

07-20-2001

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Tab settings ⇨⇨⇨⇨

▽



MNI-121CP

To the Honorable Commissioner of Patents and 1

Documents or copy thereof.

## 1. Name of conveying party(ies):

1. Douglas A. Holtzman
2. Sean A. McCarthy
3. Kyle J. MacBeth
4. Samantha J. Busfield
5. Yang Pan
6. David White
7. Mehran M. Khodadoust
8. Wei Gu

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other \_\_\_\_\_

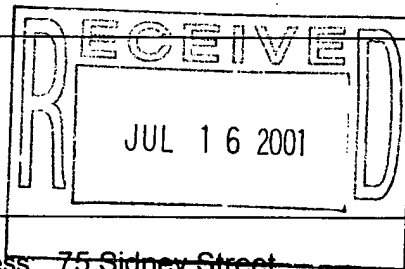
Execution Date(s): 1. June 19, 2001; 2. July 2, 2001;  
 3. June 18, 2001; 4. June 19, 2001; 5. June 19, 2001;  
 6. June 18, 2001; 7. June 19, 2001; 8. June 15, 2001.

101784261

## 2. Name and address or receiving party(ies)

Name: Millennium Pharmaceuticals, Inc.

Internal Address: \_\_\_\_\_

Street Address: 75 Sidney Street

City: Cambridge State: Massachusetts  
 ZIP: 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

MUP 7/16/01

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
09/782,980

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jean M. Silveri

Internal Address: Intellectual Property Group  
Millennium Pharmaceuticals, Inc.

Street Address: 75 Sidney StreetCity: Cambridge State: MA ZIP: 02139

## 6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ \$40.00☒ Enclosed☐ Authorized to be charged to deposit account

## 8. Deposit account number:

12-0080

## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Debra J. Milasincic, Esq.

Name of Person Signing

Signature

July 13, 2001

Date

Total number of pages including cover sheet, attachments, and document:

81

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents and Trademarks, Box Assignments  
 Washington, D.C. 20231

07/19/2001 DBYRME 00000269 09782980

01 FC:581

40.00 09

**Practitioner's Docket No. MPI2000-544OMNI**

***PATENT***

For: U.S. Rights  
For: U.S. Application  
By: Inventors

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNORS:**

Douglas A. Holtzman  
821 Centre Street, No. 6  
Jamaica Plain, MA 02130  
Nationality: United States of America

Yang Pan  
5308 135<sup>th</sup> Place SE  
Bellevue, WA 98006  
Nationality: Peoples' Republic of China

Sean A. McCarthy  
3625 Dupont Street  
San Diego, CA 92106  
Nationality: United Kingdom

David White  
35 Hollingsworth Avenue  
Braintree, MA 02148  
Nationality: United States of America

Kyle J. MacBeth  
688 Tremont Street, Apt. 4  
Boston, MA 02118  
Nationality: United States of America

Mehran M. Khodadoust  
106 Sewall Avenue, Apt. 6  
Brookline, MA 02445  
Nationality: United States of America

Samantha J. Busfield  
14 Stanford Street  
Maddington, West Australia 6109  
Australia  
Nationality: Australia

Wei Gu  
48 Kilsyth Road, #2  
Brookline, MA 02445  
Nationality: Peoples' Republic of China

hereby sell, assign and transfer to

**ASSIGNEE:**

MILLENNIUM PHARMACEUTICALS, INC.  
75 Sidney Street  
Cambridge, MA 02139  
State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR**

and which is found in (37 C.F.R. section 3.21) U.S. application no. 09/782,980 filed on January 13, 2001 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant for ourselves and our executors and administrators that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, their executors and administrators and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof and to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day of

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Kyle J. MacBeth

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above named **Kyle J. MacBeth**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this  
19th day of JUNE, 2001.

Date: x 6/19/01

x Douglas A. Holtzman  
Signature of Douglas A. Holtzman

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this 19th day of June 2001, personally appeared the above named **Douglas A. Holtzman**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Simone Corriveau  
Signature of Notary Public  
Simone Corriveau  
Print Name  
My Commission expires: 9/1/2004

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Sean A. McCarthy**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Wei Gu

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Wei Gu**, to me known to be the person described in, and who executed the foregoing  
assignment instrument and acknowledged to me that she executed the same of her own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Yang Pan**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Yang Pan**, to me known to be the persons described in, and who executed the foregoing  
assignment instrument and acknowledged to me that he executed the same of his own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_



IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Samantha J. Busfield**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Mehran M. Khodadoust

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Mehran M. Khodadoust**, to me known to be the persons described in, and who executed  
the foregoing assignment instrument and acknowledged to me that he executed the same of his  
own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of David White

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **David White**, to me known to be the persons described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

For: U.S. Rights  
For: U.S. Application  
By: Inventors

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNORS:**

Douglas A. Holtzman  
821 Centre Street, No. 6  
Jamaica Plain, MA 02130  
Nationality: United States of America

Yang Pan  
5308 135<sup>th</sup> Place SE  
Bellevue, WA 98006  
Nationality: Peoples' Republic of China

Sean A. McCarthy  
3625 Dupont Street  
San Diego, CA 92106  
Nationality: United Kingdom

David White  
35 Hollingsworth Avenue  
Braintree, MA 02148  
Nationality: United States of America

Kyle J. MacBeth  
688 Tremont Street, Apt. 4  
Boston, MA 02118  
Nationality: United States of America

Mehran M. Khodadoust  
106 Sewall Avenue, Apt. 6  
Brookline, MA 02445  
Nationality: United States of America

Samantha J. Busfield  
14 Stanford Street  
Maddington, West Australia 6109  
Australia  
Nationality: Australia

Wei Gu  
48 Kilsyth Road, #2  
Brookline, MA 02445  
Nationality: Peoples' Republic of China

hereby sell, assign and transfer to

**ASSIGNEE:**

MILLENNIUM PHARMACEUTICALS, INC.  
75 Sidney Street  
Cambridge, MA 02139  
State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR**

and which is found in (37 C.F.R. section 3.21) U.S. application no. 09/782,980 filed on January 13, 2001 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant for ourselves and our executors and administrators that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, their executors and administrators and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof and to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day of

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Kyle J. MacBeth

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above named **Kyle J. MacBeth**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Douglas A. Holtzman**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Douglas A. Holtzman**, to me known to be the person described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this 2<sup>nd</sup> day  
of July, 2001.

Date: x 7/2/07

x SAH McCarthy  
Signature of Sean A. McCarthy

x [Signature]  
Witness

x 4605 Campus Ave #3 San Diego CA 92116  
Address

x [Signature]  
Witness

92103  
x 4317 Maryland St. San Diego, CA  
Address

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above-named  
Sean McCarthy to me known to be the person described in, and who executed  
the foregoing assignment instrument and acknowledged to me that he executed  
the same of his own free will for the purpose therein expressed.

State/Commonwealth of Massachusetts  
County of Middlesex

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_



IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Wei Gu**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Wei Gu**, to me known to be the person described in, and who executed the foregoing  
assignment instrument and acknowledged to me that she executed the same of her own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Yang Pan**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Yang Pan**, to me known to be the persons described in, and who executed the foregoing  
assignment instrument and acknowledged to me that he executed the same of his own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Samantha J. Busfield**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Mehran M. Khodadoust**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Mehran M. Khodadoust**, to me known to be the persons described in, and who executed  
the foregoing assignment instrument and acknowledged to me that he executed the same of his  
own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of David White

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **David White**, to me known to be the persons described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

**Practitioner's Docket No. MPI2000-544OMNI**

**PATENT**

For: U.S. Rights  
For: U.S. Application  
By: Inventors

### **ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

#### **ASSIGNORS:**

Douglas A. Holtzman  
821 Centre Street, No. 6  
Jamaica Plain, MA 02130  
Nationality: United States of America

Yang Pan  
5308 135<sup>th</sup> Place SE  
Bellevue, WA 98006  
Nationality: Peoples' Republic of China

Sean A. McCarthy  
3625 Dupont Street  
San Diego, CA 92106  
Nationality: United Kingdom

David White  
35 Hollingsworth Avenue  
Braintree, MA 02148  
Nationality: United States of America

Kyle J. MacBeth  
688 Tremont Street, Apt. 4  
Boston, MA 02118  
Nationality: United States of America

Mehran M. Khodadoust  
106 Sewall Avenue, Apt. 6  
Brookline, MA 02445  
Nationality: United States of America

Samantha J. Busfield  
14 Stanford Street  
Maddington, West Australia 6109  
Australia  
Nationality: Australia

Wei Gu  
48 Kilsyth Road, #2  
Brookline, MA 02445  
Nationality: Peoples' Republic of China

hereby sell, assign and transfer to

#### **ASSIGNEE:**

MILLENNIUM PHARMACEUTICALS, INC.  
75 Sidney Street  
Cambridge, MA 02139  
State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR**

and which is found in (37 C.F.R. section 3.21) U.S. application no. 09/782,980 filed on January 13, 2001 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

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AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set hand and seal this 15th day of JUNE.

Date: X 6/18/01

X Kyle J. MacBeth  
Signature of Kyle J. MacBeth

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this 15th day of June 2001, personally appeared the above named **Kyle J. MacBeth**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Simonne Corriveau  
Signature of Notary Public  
SIMONNE CORRIVEAU  
Print Name  
My Commission expires: 9/1/2006



IN WITNESS WHEREOF, I have hereunto set hand and seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Douglas A. Holtzman

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Douglas A. Holtzman**, to me known to be the person described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Sean A. McCarthy**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Wei Gu

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Wei Gu**, to me known to be the person described in, and who executed the foregoing  
assignment instrument and acknowledged to me that she executed the same of her own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Yang Pan**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Yang Pan**, to me known to be the persons described in, and who executed the foregoing  
assignment instrument and acknowledged to me that he executed the same of his own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Samantha J. Busfield**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Mehran M. Khodadoust**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Mehran M. Khodadoust**, to me known to be the persons described in, and who executed  
the foregoing assignment instrument and acknowledged to me that he executed the same of his  
own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of David White**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **David White**, to me known to be the persons described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

**Practitioner's Docket No. MPI2000-544OMNI**

***PATENT***

For: U.S. Rights  
For: U.S. Application  
By: Inventors

### **ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

#### **ASSIGNORS:**

Douglas A. Holtzman  
821 Centre Street, No. 6  
Jamaica Plain, MA 02130  
Nationality: United States of America

Yang Pan  
5308 135<sup>th</sup> Place SE  
Bellevue, WA 98006  
Nationality: Peoples' Republic of China

Sean A. McCarthy  
3625 Dupont Street  
San Diego, CA 92106  
Nationality: United Kingdom

David White  
35 Hollingsworth Avenue  
Braintree, MA 02148  
Nationality: United States of America

Kyle J. MacBeth  
688 Tremont Street, Apt. 4  
Boston, MA 02118  
Nationality: United States of America

Mehran M. Khodadoust  
106 Sewall Avenue, Apt. 6  
Brookline, MA 02445  
Nationality: United States of America

Samantha J. Busfield  
14 Stanford Street  
Maddington, West Australia 6109  
Australia  
Nationality: Australia

Wei Gu  
48 Kilsyth Road, #2  
Brookline, MA 02445  
Nationality: Peoples' Republic of China

hereby sell, assign and transfer to

#### **ASSIGNEE:**

MILLENNIUM PHARMACEUTICALS, INC.  
75 Sidney Street  
Cambridge, MA 02139  
State of Incorporation: Delaware



and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR**

and which is found in (37 C.F.R. section 3.21) U.S. application no. 09/782,980 filed on January 13, 2001 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant for ourselves and our executors and administrators that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, their executors and administrators and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof and to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day of \_\_\_\_\_.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Kyle J. MacBeth

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above named **Kyle J. MacBeth**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Douglas A. Holtzman**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Douglas A. Holtzman**, to me known to be the person described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Sean A. McCarthy**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Wei Gu**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Wei Gu**, to me known to be the person described in, and who executed the foregoing  
assignment instrument and acknowledged to me that she executed the same of her own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Yang Pan**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Yang Pan**, to me known to be the persons described in, and who executed the foregoing  
assignment instrument and acknowledged to me that he executed the same of his own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Samantha J. Busfield**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Mehran M. Khodadoust**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Mehran M. Khodadoust**, to me known to be the persons described in, and who executed  
the foregoing assignment instrument and acknowledged to me that he executed the same of his  
own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_



IN WITNESS WHEREOF, I have hereunto set hand and seal this 15th day  
of JUNE, 2001.

Date: X 6/18/01

X [Signature]  
Signature of David White

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this 15th day of JUNE 2001, personally appeared the above  
named **David White**, to me known to be the persons described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

[Signature]  
Signature of Notary Public  
SIMONNE CORRIVEAU  
Print Name  
My Commission expires: 9/1/2006

**Practitioner's Docket No. MPI2000-544OMNI**

**PATENT**

For: U.S. Rights  
For: U.S. Application  
By: Inventors

### **ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

#### **ASSIGNORS:**

Douglas A. Holtzman  
821 Centre Street, No. 6  
Jamaica Plain, MA 02130  
Nationality: United States of America

Yang Pan  
5308 135<sup>th</sup> Place SE  
Bellevue, WA 98006  
Nationality: Peoples' Republic of China

Sean A. McCarthy  
3625 Dupont Street  
San Diego, CA 92106  
Nationality: United Kingdom

David White  
35 Hollingsworth Avenue  
Braintree, MA 02148  
Nationality: United States of America

Kyle J. MacBeth  
688 Tremont Street, Apt. 4  
Boston, MA 02118  
Nationality: United States of America

Mehran M. Khodadoust  
106 Sewall Avenue, Apt. 6  
Brookline, MA 02445  
Nationality: United States of America

Samantha J. Busfield  
14 Stanford Street  
Maddington, West Australia 6109  
Australia  
Nationality: Australia

Wei Gu  
48 Kilsyth Road, #2  
Brookline, MA 02445  
Nationality: Peoples' Republic of China

hereby sell, assign and transfer to

#### **ASSIGNEE:**

MILLENNIUM PHARMACEUTICALS, INC.  
75 Sidney Street  
Cambridge, MA 02139  
State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR**

and which is found in (37 C.F.R. section 3.21) U.S. application no. 09/782,980 filed on January 13, 2001 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant for ourselves and our executors and administrators that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, their executors and administrators and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof and to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day of \_\_\_\_\_.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Kyle J. MacBeth

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above named **Kyle J. MacBeth**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Douglas A. Holtzman

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Douglas A. Holtzman**, to me known to be the person described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Sean A. McCarthy**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Wei Gu**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Wei Gu**, to me known to be the person described in, and who executed the foregoing  
assignment instrument and acknowledged to me that she executed the same of her own free will  
for the purpose therein expressed.

\_\_\_\_\_  
**Signature of Notary Public**

\_\_\_\_\_  
**Print Name**

**My Commission expires:** \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Yang Pan**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Yang Pan**, to me known to be the persons described in, and who executed the foregoing  
assignment instrument and acknowledged to me that he executed the same of his own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_



IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Samantha J. Busfield**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

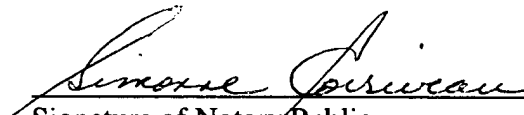
IN WITNESS WHEREOF, I have hereunto set hand and seal this 19th day  
of JUNE, 2001.

Date: June 19, 2001   
Signature of Mehran M. Khodadoust

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this 19th day of JUNE 2001, personally appeared the above  
named **Mehran M. Khodadoust**, to me known to be the persons described in, and who executed  
the foregoing assignment instrument and acknowledged to me that he executed the same of his  
own free will for the purpose therein expressed.

  
Signature of Notary Public  
SIMONNE CORRIVEAU  
Print Name  
My Commission expires: 9/1/2006

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of David White**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **David White**, to me known to be the persons described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

**Practitioner's Docket No. MPI2000-544OMNI**

**PATENT**

For: U.S. Rights  
For: U.S. Application  
By: Inventors

### **ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

#### **ASSIGNORS:**

Douglas A. Holtzman  
821 Centre Street, No. 6  
Jamaica Plain, MA 02130  
Nationality: United States of America

Yang Pan  
5308 135<sup>th</sup> Place SE  
Bellevue, WA 98006  
Nationality: Peoples' Republic of China

Sean A. McCarthy  
3625 Dupont Street  
San Diego, CA 92106  
Nationality: United Kingdom

David White  
35 Hollingsworth Avenue  
Braintree, MA 02148  
Nationality: United States of America

Kyle J. MacBeth  
688 Tremont Street, Apt. 4  
Boston, MA 02118  
Nationality: United States of America

Mehran M. Khodadoust  
106 Sewall Avenue, Apt. 6  
Brookline, MA 02445  
Nationality: United States of America

Samantha J. Busfield  
14 Stanford Street  
Maddington, West Australia 6109  
Australia  
Nationality: Australia

Wei Gu  
48 Kilsyth Road, #2  
Brookline, MA 02445  
Nationality: Peoples' Republic of China

hereby sell, assign and transfer to

#### **ASSIGNEE:**

MILLENNIUM PHARMACEUTICALS, INC.  
75 Sidney Street  
Cambridge, MA 02139  
State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR**

and which is found in (37 C.F.R. section 3.21) U.S. application no. 09/782,980 filed on January 13, 2001 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

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AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day of \_\_\_\_\_.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Kyle J. MacBeth**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above named **Kyle J. MacBeth**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Douglas A. Holtzman

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Douglas A. Holtzman**, to me known to be the person described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Sean A. McCarthy**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address



IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Wei Gu

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Wei Gu**, to me known to be the person described in, and who executed the foregoing  
assignment instrument and acknowledged to me that she executed the same of her own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Yang Pan**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Yang Pan**, to me known to be the persons described in, and who executed the foregoing  
assignment instrument and acknowledged to me that he executed the same of his own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this 19<sup>th</sup> day  
of June, 2001.

Date: 19 June 2001

x Samantha J. Busfield  
Signature of Samantha J. Busfield

PR PETA A TILBROOK, 8 MORGAN ST MORMAN PARK WA6012 AUSTRALIA  
Witness Address

PR JOANNE M BRITTO UNIT 6/52 KING GEORGE ST, VIC PARK 6100 AUST  
Witness Address

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above-  
named Samantha Busfield, to me known to be the persons described in, and who  
executed the foregoing assignment instrument and acknowledged to me that  
she executed the same of his own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name  
My Commission expires \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Mehran M. Khodadoust**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Mehran M. Khodadoust**, to me known to be the persons described in, and who executed  
the foregoing assignment instrument and acknowledged to me that he executed the same of his  
own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of David White

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **David White**, to me known to be the persons described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

**Practitioner's Docket No. MPI2000-544OMNI**

***PATENT***

For: U.S. Rights  
For: U.S. Application  
By: Inventors

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNORS:**

Douglas A. Holtzman  
821 Centre Street, No. 6  
Jamaica Plain, MA 02130  
Nationality: United States of America

Yang Pan  
5308 135<sup>th</sup> Place SE  
Bellevue, WA 98006  
Nationality: Peoples' Republic of China

Sean A. McCarthy  
3625 Dupont Street  
San Diego, CA 92106  
Nationality: United Kingdom

David White  
35 Hollingsworth Avenue  
Braintree, MA 02148  
Nationality: United States of America

Kyle J. MacBeth  
688 Tremont Street, Apt. 4  
Boston, MA 02118  
Nationality: United States of America

Mehran M. Khodadoust  
106 Sewall Avenue, Apt. 6  
Brookline, MA 02445  
Nationality: United States of America

Samantha J. Busfield  
14 Stanford Street  
Maddington, West Australia 6109  
Australia  
Nationality: Australia

Wei Gu  
48 Kilsyth Road, #2  
Brookline, MA 02445  
Nationality: Peoples' Republic of China

hereby sell, assign and transfer to

**ASSIGNEE:**

MILLENNIUM PHARMACEUTICALS, INC.  
75 Sidney Street  
Cambridge, MA 02139  
State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR**

and which is found in (37 C.F.R. section 3.21) U.S. application no. 09/782,980 filed on January 13, 2001 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant for ourselves and our executors and administrators that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, their executors and administrators and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof and to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day of

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Kyle J. MacBeth

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above named **Kyle J. MacBeth**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_



IN WITNESS WHEREOF, I have hereunto set hand and seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Douglas A. Holtzman**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Douglas A. Holtzman**, to me known to be the person described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Sean A. McCarthy**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Wei Gu**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Wei Gu**, to me known to be the person described in, and who executed the foregoing  
assignment instrument and acknowledged to me that she executed the same of her own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this 19<sup>TH</sup> day  
of JUNE, 2001.

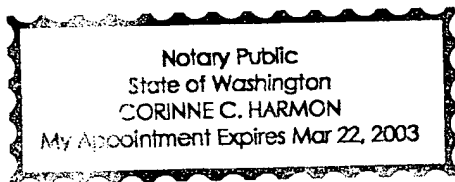
Date: X 6/19/01

X Yang Pan  
Signature of Yang Pan

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of WASHINGTON  
County of KING

Before me this 19<sup>TH</sup> day of JUNE 2001, personally appeared the above  
named **Yang Pan**, to me known to be the persons described in, and who executed the foregoing  
assignment instrument and acknowledged to me that he executed the same of his own free will  
for the purpose therein expressed.



Corinne Harmon  
Signature of Notary Public  
CORINNE HARMON  
Print Name  
My Commission expires: 03-22-03

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Samantha J. Busfield**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Mehran M. Khodadoust**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Mehran M. Khodadoust**, to me known to be the persons described in, and who executed  
the foregoing assignment instrument and acknowledged to me that he executed the same of his  
own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of David White**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **David White**, to me known to be the persons described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

**Practitioner's Docket No. MPI2000-544OMNI**

**PATENT**

For: U.S. Rights  
For: U.S. Application  
By: Inventors

### **ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

#### **ASSIGNORS:**

Douglas A. Holtzman  
821 Centre Street, No. 6  
Jamaica Plain, MA 02130  
Nationality: United States of America

Yang Pan  
5308 135<sup>th</sup> Place SE  
Bellevue, WA 98006  
Nationality: Peoples' Republic of China

Sean A. McCarthy  
3625 Dupont Street  
San Diego, CA 92106  
Nationality: United Kingdom

David White  
35 Hollingsworth Avenue  
Braintree, MA 02148  
Nationality: United States of America

Kyle J. MacBeth  
688 Tremont Street, Apt. 4  
Boston, MA 02118  
Nationality: United States of America

Mehran M. Khodadoust  
106 Sewall Avenue, Apt. 6  
Brookline, MA 02445  
Nationality: United States of America

Samantha J. Busfield  
14 Stanford Street  
Maddington, West Australia 6109  
Australia  
Nationality: Australia

Wei Gu  
48 Kilsyth Road, #2  
Brookline, MA 02445  
Nationality: Peoples' Republic of China

hereby sell, assign and transfer to

#### **ASSIGNEE:**

MILLENNIUM PHARMACEUTICALS, INC.  
75 Sidney Street  
Cambridge, MA 02139  
State of Incorporation: Delaware



and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

**NOVEL ITALY, LOR-2, STRIFE, TRASH, BDSF, LRSG, AND STMST PROTEIN AND NUCLEIC ACID MOLECULES AND USES THEREFOR**

and which is found in (37 C.F.R. section 3.21) U.S. application no. 09/782,980 filed on January 13, 2001 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant for ourselves and our executors and administrators that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, their executors and administrators and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof and to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day of

\_\_\_\_\_.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Kyle J. MacBeth

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above named **Kyle J. MacBeth**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this  
\_\_\_\_\_ day of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Douglas A. Holtzman**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Douglas A. Holtzman**, to me known to be the person described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Sean A. McCarthy**

\_\_\_\_\_  
Witness


\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this 15<sup>th</sup> day  
of JUNE, 2001.

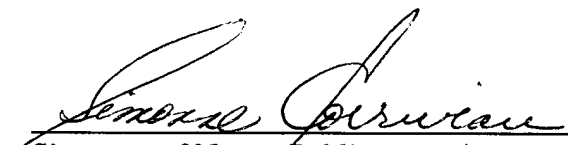
Date: JUNE 15, 2001

  
X \_\_\_\_\_  
Signature of Wei Gu

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts  
County of Middlesex

Before me this 15<sup>th</sup> day of June 2001, personally appeared the above  
named **Wei Gu**, to me known to be the person described in, and who executed the foregoing  
assignment instrument and acknowledged to me that she executed the same of her own free will  
for the purpose therein expressed.

  
\_\_\_\_\_  
Signature of Notary Public  
Simonne Colrivon  
\_\_\_\_\_  
Print Name  
My Commission expires: 9/1/2006

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Yang Pan**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_

County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Yang Pan**, to me known to be the persons described in, and who executed the foregoing  
assignment instrument and acknowledged to me that he executed the same of his own free will  
for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Samantha J. Busfield**

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Address

IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
**Signature of Mehran M. Khodadoust**

**NOTARIZATION ACCOMPANYING ASSIGNMENT**

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **Mehran M. Khodadoust**, to me known to be the persons described in, and who executed  
the foregoing assignment instrument and acknowledged to me that he executed the same of his  
own free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_



IN WITNESS WHEREOF, I have hereunto set hand and seal this \_\_\_\_\_ day  
of \_\_\_\_\_, 2001.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of David White

### NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of \_\_\_\_\_  
County of \_\_\_\_\_

Before me this \_\_\_\_\_ day of \_\_\_\_\_ 2001, personally appeared the above  
named **David White**, to me known to be the persons described in, and who executed the  
foregoing assignment instrument and acknowledged to me that he executed the same of his own  
free will for the purpose therein expressed.

\_\_\_\_\_  
Signature of Notary Public

\_\_\_\_\_  
Print Name

My Commission expires: \_\_\_\_\_